

Amendment Under 37 C.F.R. § 1.111
USSN 10/509,625
Attorney Docket Q83943
November 14, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-7. (Canceled)

8. (New) A positive-displacement pump, in particular for use in machines for dispensing fluids, comprising a body having a cylindrical cavity, a rotor (30) mounted rotatably inside said cylindrical cavity (11a) and having a peripheral curved surface (31) for defining a centered coupling without interference into said cylindrical cavity, wherein peripheral notches (32) are provided on the cylindrical peripheral curved surface (31) of said rotor (30) to define a plurality of peripheral teeth (33), an idle sprocket (20) being rotatably mounted without interference with a centering body (18) and having a plurality of teeth (16) meshed with said plurality of peripheral teeth (33) of said rotor (30), wherein portions of an undercut wall (35, 36) spaced from the cylindrical cavity and elongated in the direction of the axis of rotation of said rotor (30) are provided on the peripheral curved surface (31) of said rotor (30), and at least one depression (34) is provided on the outer face of each peripheral tooth (33) between two adjacent peripheral notches (32).

9. (New) A positive-displacement pump according to Claim 8, wherein said idle sprocket (20) is mounted rotatably on a pin (18), said idle sprocket (20) having a central opening comprising portions of a centering wall (23) which define the centered coupling of said idle

Amendment Under 37 C.F.R. § 1.111
USSN 10/509,625
Attorney Docket Q83943
November 14, 2005

sprocket (20) to said pin (18) and which alternate with portions of undercut wall (26) spaced from said pin (18).

10. (New) A positive-displacement pump according to Claim 9, wherein the central opening comprises three portions of said centering wall (23).

11. (New) A positive-displacement pump according to Claim 8, wherein second depressions (36) are provided on the cylindrical peripheral curved surface (31) of said rotor (30), in a position aligned longitudinally with said peripheral notches (32).

12. (New) A positive-displacement pump according to Claim 8, wherein an annular chamfer (35) is formed on a portion of said peripheral curved surface (31) remote from said plurality of peripheral teeth (33).